

Apollo Scientific Ltd  
Whitefield Road, Bredbury,  
Stockport, SK6 2QR, UK.  
Tel:44(0)161 406 0505 Fax:44(0)161 406 0506  
e-mail: QCDept@apolloscientific.co.uk



## **-CERTIFICATE OF ANALYSIS-**

Product: (1S)-(+)-10-Camphorsulphonyl Chloride

Code Number: OR350351

CAS Number: 21286-54-4

Formula: C<sub>10</sub>H<sub>15</sub>ClO<sub>3</sub>S

Batch Number: AS489235

Appearance: White crystalline powder

Melting Point: 66.6 degrees C

Purity by GC: 98.4%

Optical Rotation: 31.8 deg (c=1, CHCl<sub>3</sub>)

Titration: 97.8%

Verified by: David Parton

Signed: --Digital document, no signature required--